# Vishwakarma Institute of Information Technology, Pune Department of Computer Engineering

**Continuous Evaluation – I**

**Submission Deadline – 25th April, 2020**

**Class: - T.Y. BTech Subject: - Operating Systems CE Assignment**

**Unit I and II**

**For Those who have not given earlier**

1. **What is the output of following code? Why? Explain fork() system call.**

#include <stdio.h>

#include <unistd.h>

int main()

{

    if (fork()) {

        if (!fork()) {

            fork();

            printf("1 ");

        }

        else {

            printf("2 ");

        }

    }

    else {

        printf("3 ");

    }

    printf("4 ");

    return 0;

}

1. Consider a system which has a CPU bound process, which requires the burst time of 40 seconds. The multilevel Feed Back Queue scheduling algorithm is used and the queue time quantum ‘2’ seconds and in each level it is incremented by ‘5’ seconds. Then how many times the process will be interrupted and on which queue the process will terminate the execution? Give all the steps.